



NCERT



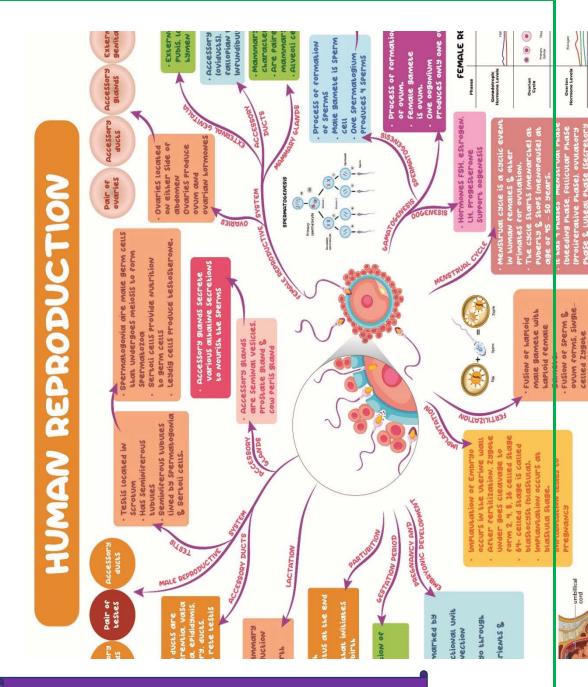
CHAPTER WISE TOPIC WISE

LINE BY LINE QUESTIONS





BY SCHOOL OF EDUCATORS

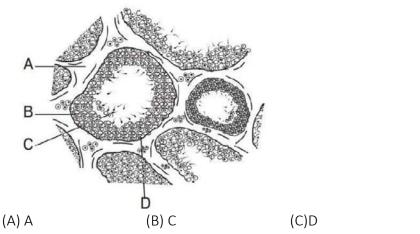


NCERT LINE BY LINE QUESTIONS

The Male Reproductive System

- 1. The testes are situated outside the abdominal cavity within a pouch called
 - (A) urethra
- (B) scrotum
- (C)penis
- (D)none of these

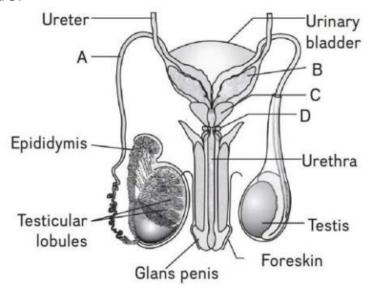
- 2. In humans, sperms are produced in
 - (A) epididymis (B) rete testis
- (C) seminiferous tubules
- (D) vas deferens
- 3. Sertoli cells which line the seminiferous tubules from inside
 - (A) undergo meiotic division to produce sperms
- (B) provide nutrition to the germ cells
- (C) synthesise and secrete testicular hormones
- (D) All of these
- 4. Refer to the given figure showing sectional view of seminiferous tubule. In the figure, some parts are labelled as A, B, C and D. Identify the part which provides nutrition to the developing sperms.



- 5. The regions outside the seminiferous tubules that contain Leydig cells are called
 - (A) interstitial spaces (B) antrum
- (C) scrotum
- (D) none of these

(D) B

- 6. Testicular hormones called androgens are secreted by
 - (A) interstitial cells
- (B) Leydig cells (C) Sertoli cells
- (D) both (a) and (b)
- 7. Which one is odd from the following structures with reference to the male reproductive system. [NCERT Exemplar]
 - (A) Rete testis (B) Epididymis
- (C) Vasa efferentia
- (D) Isthmus
- The vas deferens opens into urethra as [NCERT Exemplar] 8.
 - (A) epididymis (B) ejaculatory duct (C) efferent ductile
- (D) ureter
- 9. Which of the following depicts the correct pathway of transport of sperms?
 - (A) Rete testis \rightarrow Efferent ductules \rightarrow Epididymis \rightarrow Vas deference
 - (B) Rete testis \rightarrow Epididymis \rightarrow Efferent ductules \rightarrow Vas deference
 - (C) Rete testis \rightarrow Vas deference \rightarrow Efferent ductules \rightarrow Epididymis
 - (D) Efferent ductules \rightarrow Rete testis \rightarrow Vas deference \rightarrow Epididymis
- 10. Among the following which one is not an accessory duct of male reproductive system?
 - (A) Rete testis (B) Vasa efferentia (C) Vas deferens (D) Urethra
- 11. The ejaculatory duct transports the sperms to the outside through
- (B) rete testis (C) vasa efferentia (D) none of these
- 12. Refer to the given figure and choose the correct option for the parts labelled as A, B, C and D.



	а	b	С	d
Α	Vas deferens	Seminal vesicle	Prostate gland	Bulbourethral gland
В	Vasa efferentia	Prostate gland	Seminal vesicle	Bulbourethral gland
С	Prostate gland	Seminal vesicle	Bulbourethral gland	Vas deferens
D	Bulbourethral gland	Vas deferens	Prostate gland	Vasa efferentia

13. Match the parts given in Column-I to their characteristic features in Column-II and choose the correct option from the codes given below

Column I

Column II

d

(a) Penis

- (1) Loose fold of skin
- (b) Glans penis
- (2) Male external genitalia
- (c) Foreskin
- (3) External opening urethra
- (d) Urethral meatus
- (4) Enlarged end of penis
- b а С (A) 2 4 1 (B) 4
 - 3 2
- 2 3 1 (C) 4
- (D) 3 2 1 4
- 14. Urethral meatus is/are [NCERT Exemplar]
 - (A) the urinogenital duct

- (B) opening of vas deferens into urethra
- (C) external opening of the urinogenital duct (D) muscles surrounding the urinogenital duct
- 15. Among the following which one is not a male accessory gland? [NCERT Exemplar]
 - (A) Seminal vesicle
- (B) Ampulla
- (C) Prostate
- (D) Bulbourethral gland

16. Match the Column-I (parts) to Column-II (feature) and choose the correct option from the codes given below.

Column I

Column II

- (a) Sertoli cells
- (1) Testicular hormones
- (b) Leydig cells
- (2) External opening of urethra
- (c) Epididymis
- (3) Nutrition to the germ cells
- (d) Urethral meatus
- (4) Male sex accessory duct
- b а
- d

1

2

4 3

- (A) 4
- С
- (B)
- (C)
- 4
- 1
- 3
- (D) 2
- 1
- 17. Seminal plasma is contributed by: [NCERT Exemplar]
- (I) Seminal vesicle
- (II) Prostate
- (III) Urethra
- (IV) Bulbourethral gland

(A) I and II

17.

- (B) I, II and IV
- (C) II, III and IV
- (D) I and IV
- 18. Read the following statements about seminal plasma and choose the correct statement(s) from the given options.
 - (I) Seminal plasma is secreted by seminal vesicles, prostate and bulbourethral glands.
 - (II) It is rich in sucrose and calcium.

1

2

4

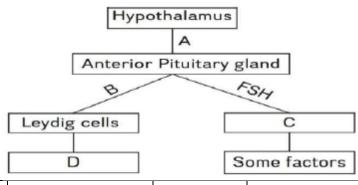
- (III) It contains certain enzymes also.
- (A) I and II
- (B) II and III
- (C) I and III
- (D) All of these
- 19. Read the following statements about male reproductive system and choose the incorrect statements from the given options.
 - (I) It is located in the pelvis region.

	(II) The testes are situ	ated outside the abdo	minal cavity with	in a po	uch called so	crotum.
	(III) Each testis has ab	out 350 testicular tub	ules.			
	(IV) Penis, the male ex	xternal genitalia is mad	de up of special ti	issues t	o facilitate ir	nsemination.
	(A) I and III	(B) III and IV	(C) I and IV		(D) Only III	
20.	Assertion: The scrotu	m helps in maintaining	g the low tempera	ature of	f the testes.	
	Reason: The low tem	perature of the testes	is necessary for s	sperma [.]	togenesis.	
		d reason are true and				assertion.
		d reason are true, but				
	(C) Assertion is true, k				•	
	(D) Both assertion and					
21.	` '	ed part of penis is calle	ed glans penis.			
	_	nis is covered by a loos	- '	led fore	skin. [Pg	g-44,H]
		d reason are true and			_	, , -
	, ,	d reason are true, but				
	(C) Assertion is true, k			001100	coxplanation	
	(D) Both assertion and					
The Fe	male Reproductive Syst					
22.	The primary female se					
22.	(A) vagina	(B) uterus	(C) ovaries		(D) external	genitalia
23.	, , ,	which one is not the p	` '		` '	geriitalia
23.	(A) Cervix	(B) Sertoli cells (C) Ma				
24.	` '				ucts	
24.		ute the female access			(D) a+ (a)	a :a al (la)
25	(A) Fallopian ducts (E	, •	(C)ovaries		(D)both (a)	and (b)
25.		ort of Fallopian tube th				
26	(A) infundibulum	(B) fimbriae	(C) ampulla		(D) isthmus	
26.		ct that joins the uterus			/D) : (!:	
27	(A) ampulla	(B) isthmus	(C) fimbriae		(D) infundib	uium
27.	The uterus is also call		(6)		(5)	. 1
	, ,	(B) cervix	(5) 55. 7.54. 54	al	(D) none of	these
28.	-	yer that lines the uter	•	(=)		
	(A) perimetrium	(B) myometrium	(C) endometriu	, ,		
29.		undergoes cyclical ch				
	(A) myometrium	` '	(C) perimetriu	` '	` ,	` '
30.		xhibits strong contract	_			?
	, ,) Perimetrium (C) M	yometrium (D)	Both (a	a) and (c)	
31.	The female external g					
	(A) mons pubis	(B) labia majora	(C) clitoris		(D) all of the	ese
32.	The opening of the va	igina is often covered	partially by a mer	mbrane	called	
	(A) hymen	(B) clitoris	(C) labia minora	a	(D) none of	these
33.	A tiny finger-like struc	ture which lies at the	upper junction of	f the tw	o labia mind	ora is
	(A) hymen	(B) mons pubis(C) cli	toris ((D) non	e of these	
34.	How many mammary	lobes are found in each	ch breast?			
	(A) 20–25	(B) 15-20	(C) 10-15		(D) 25-30	
35.	The alveoli of mamma	ary glands open into				
	(A) mammary tubules	(B) ma	ammary duct			
	(C) lactiferous duct		(D) mammary lo	obes		

36.			ucked o		ugh :iferous duct (C) alveoli (D) none of these
37.			•		reproductive system given in Column-I with their
57.					choose the correct option from the codes given below.
	Colu		Column	i ii ana i	Column II
	• •	Ovary		(2)	(1) Delivery of baby
	` '	imbriae		(2) S	iteroid hormone
		/lyomet			(3) Secretion of milk
	(d) (Cells of a	_		(4) Collection of ovum
		а	b	С	d
	(A)	2	4	1	3
	(B)	4	3	2	1
	(C)	3	4	1	2
	(D)	1	4	3	2
38.	Mato	ch the la	ayers of	uterus į	given in Column-I with their characteristic features given in Column-II and
	choo	se the o	correct o	option f	rom the codes given below.
	Colu	mn l			Column II
	(A) F	Perimet	rium		(1) Thick layer of smooth muscles
	(B) N	√lyomet	rium		(2) Thick membranous layer
		, Endome			(3) Glandular layer
	()				(4) Thin membranous layer
		а	b	С	(, , , , , , , , , , , , , , , , , , ,
	(A)	2	4	3	
	(B)	4	1	3	
	(C)	1	2	3	
		3	1	2	
20	(D)				systems of societalis in Columns Lyvith their shows storictic factures in Column II
39.					external genitalia in Column-I with their characteristic features in Column-II.
			correct	option i	from the codes given below.
	Colu				Column II
		∕lons pu			(1) Fleshy folds of tissue
		.abia ma	ajora		(2) Cushion of fatty tissue
	` '	lymen			(3) Tiny finger-like structure
	(d) (Clitoris			(4) Covers opening of vagina
		а	b	С	d
	(A)	2	1	4	3
	(B)	4	3	2	1
	(C)	1	4	3	2
	(D)	2	1	3	4
40.	The 6	edges o	f the inf	undibul	lum possess finger like projections that -
			ight of f		
			_		ovum after fertilisation.
					release of egg.
		one of		01 0110 1	Greate of 688.
41.				tateme	nts about uterus and choose the correct option from the codes given below.
14.			_		is like inverted pear.
	• •				agina through a narrow cervix.
4	(11)	ne uteri	us open	S IIILO V	agina unougn a nanow cervix.

42.	(III) The uterus along with cervix forms the birth canal. (A) I and III (B) II and III (C) I and II Read the following statements about mammary glands and choose (I) The mammary glands contain glandular tissue and fat. (II) The mammary lobes of breasts contain alveoli which secrete mi (III) The milk secreted by alveoli is stored in lactiferous duct. (A) Only II (B) Only III (C) Only I	
43.	Assertion: Ovaries are the primary sex organs.	(2), 2.13
	Reason: Ovaries produce the female gamete.	
	(A) Both assertion and reason are correct and reason is the correct(B) Both assertion and reason are correct but reason is not the corr(C) Assertion is correct, but reason is incorrect.(D) Both assertion and reason are incorrect.	
44.	Assertion: Ovaries produce gamete as well as steroid hormones.	
	Reason: The oviducts, ovaries and cervix constitute the female acce	essory ducts.
	(A) Both assertion and reason are correct and reason is the correct	·
	(B) Both assertion and reason are correct but reason is not the corr	ect explanation of assertion.
	(C) Assertion is correct, but reason is incorrect.(D) Both assertion and reason are incorrect.	
45.	Assertion: The uterus opens into vagina through a narrow cervix.	
	Reason: The cavity of cervix is called cervical canal.	
	(A) Both assertion and reason are correct and reason is the correct	
	(B) Both assertion and reason are correct but reason is not the corr(C) Assertion is correct, but reason is incorrect.	ect explanation of assertion.
	(D) Both assertion and reason are incorrect.	
46.	Assertion: Mons pubis is a cushion of fatty tissue covered by skin ar	nd pubic hair.
	Reason: The labia majora are paired folds of tissue under the labia	
	(A) Both assertion and reason are correct and reason is the correct	·
	(B) Both assertion and reason are correct but reason is not the corr(C) Assertion is correct, but reason is incorrect.	ect explanation of assertion.
	(D) Both assertion and reason are incorrect.	
47.	Assertion: The alveoli of mammary lobes open into their lumen.	
	Reason: Several lactiferous ducts join to form a mammary duct thro	ough which milk is sucked out.
	(A) Both assertion and reason are correct and reason is the correct(B) Both assertion and reason are correct but reason is not the corr(C) Assertion is correct, but reason is incorrect.(D) Both assertion and reason are incorrect.	
Para-3.		
40	Gametogenesis The process of producing gemetes by primary say organs is known.	
48.	The process of producing gametes by primary sex organs is known (A) gametogenesis (B) spermatogenesis (C) oogenesis	as- (D) none of these
49.	The immature, diploid male germ cells that produce sperms are (A) spermatogonia (B) secondary sperma	. ,
50.	(C) spermatids (D) spermatozoa Which of the following cells during gametogenesis is normally diplo	oid? [AIPMT-2015]
	3 33 3 mp	•

51.	(A) Spermatid (B) Spermatogonia (C) Secondary polar body (D) Primary polar body Among the following, identify the cell(s) which undergo mitotic division during spermatogenesis?
	(A) Primary spermatocytes (B) Secondary spermatocytes (C) Spermatids (D) Spermatogonia
52.	Spermatogenesis is the process in which immature male germ cells undergo division to produce sperms.
,	Choose the correct one with reference to above. [NCERT Exemplar]
	(A) Spermatogonia have 46 chromosomes and always undergo meiotic cell division.
	(B) Primary spermatocytes divide by mitotic cell division.
	(C) Secondary spermatocytes have 23 chromosomes and undergo second meiotic division.
	(D) Spermatozoa are transformed into spermatids.
53.	After spermiogenesis, sperm heads become embedded in
	(A) Leydig cells (B) antrum (C) Sertoli cells (D) interstitial cells
54.	During spermiation the sperms are released from [NEET Exemplar]
	(A) seminiferous tubules (B) vas deferens
	(C) epididymis (D) prostate gland
55.	The difference between spermiogenesis and spermiation is [NEET-2018]
	(A) in spermiogenesis spermatids are formed, while in spermiation spermatozoa are formed.
	(B) in spermiogenesis spermatozoa are formed, while in spermiation spermatids are formed.(C) in spermiogenesis spermatozoa from Sertoli cells are released into the cavity of seminiferous
	tubules, while in spermiation spermatozoa are formed.
	(D) in spermiogenesis spermatozoa are formed, while in spermiation spermatozoa are released
	from Sertoli cells into the cavity of seminiferous tubules.
56.	Spermatogenesis starts due to significant increase in the secretion of
	(A) FSH (B) GnRH (C) LH (D) oxytocin
57.	Refer to the given figure showing diagrammatic sectional view of a seminiferous tubule. In the
	figure, some parts are labeled as A, B, C and D. Identify the part which gets activated by FSH.
	Secondary spermatocyte Primary spermatocyte D
0	(A) A (B) B (C) D (D) C
58.	Refer to the given flowchart. In it, some spaces are mentioned as A, B, C and D. Identify the correct option for them from the codes given below.
	option for them from the codes given below.



Α	GnRH	LH	Sertoli cells	Androgens
В	LH	GnRH	Androgens	Sertoli cells
С	Androgens	LH	Interstitial cells	FSH
D	FSH	Sertoli cells	GnRH	LH

- 59. The anterior portion of the sperm head is covered by a cap-like structure called
 - (A) middle piece

- (B) antrum (C) acrosome (D) none of these
- 60. Match the Column-I representing parts of the sperm to Column-II showing their functions and choose the correct option. [NCERT Exemplar]

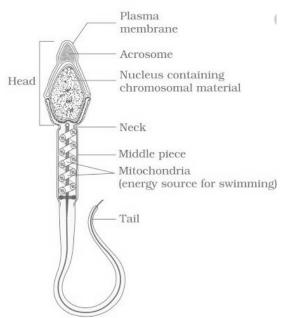
Column I

Column II

- (a) Head
- (1) Enzymes
- (b) Middle piece
- (2) Sperm motility
- (c) Acrosome
- (3) Energy
- (d) Tail
- (4) Genetic material
- C Α В D (A) 2 4 1 3 2 3 (B) 4 1
- (C) 4
- 2 3
- 2 (D)
- 3 4
- 1 61. The semen of human male contains

1

- (A) seminal plasma (B) sperms
- (C) enzymes
- (D) both (a) and (b)
- 62. Refer to the given figure showing structure of a sperm. The figure is followed by four (I–IV) statements.



Choose the incorrect statement(s) about it.

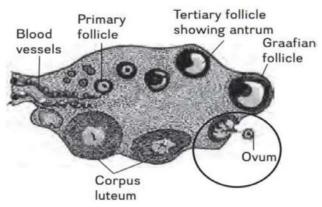
- (I) The acrosome is filled with enzymes that help in fertilizing the ovum.
- (II) The neck possesses numerous mitochondria.
- (III) Tail is responsible for sperm motility.
- (IV) The human male ejaculates 50–100 million sperms during a coitus.
- (A) II and IV
- (B) I and III
- (C) I and II
- (D) III and IV
- 63. Which among the following has 23 chromosomes?
 - (A) Spermatogonia
- (B) Zygote
- (C) Secondary oocyte (D) Oogonia
- The oogenesis is markedly different from spermatogenesis because 64.
 - (A) it is initiated during embryonic development stage.
 - (B) it produces diploid gametes.
 - (C) it produces sperms also in special conditions.
 - (D) none of these
- 65. The tertiary follicle is characterized by a fluid filled cavity called
 - (A) antrum
- (B) corpus luteum
- (C) matrix
- (D) none of these
- 66. In which stage primary oocyte completes its first meiotic division?
 - (A) Primary follicle
- (B) Secondary follicle (C) Tertiary follicle
- Match Column-I with Column-II and choose the correct option from the codes given below. 67.

Column I Column II

- (a) Oogonia
- (1) Antrum
- (b) Tertiary follicle
- (2) Gamete mother cells
- (c) Secondary follicle (3) Haploid
- (d) Secondary oocyte (4) More layers of granulosa

	а	b	С	d
(A)	4	3	2	1
(B)	1	2	3	4
(C)	2	1	4	3
(D)	3	Δ	2	1

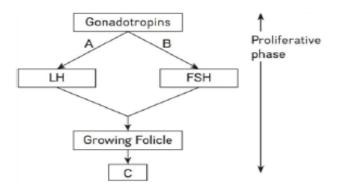
- 68. Extrusion of second polar body from egg nucleus occurs [NEET 2019]
 - (A) after entry of sperm, but before fertilisation
- (B) after fertilisation
- (C) before entry of sperm into ovum
- (D) simultaneously with first cleavage
- 69. Refer to the given figure showing diagrammatic section view of ovary. The encircled part of figure is showing a process of oogenesis. Identify it as well as the follicle which is involved in this process.



- (A) Spermiation, Secondary follicle
- (B) Menstruation, Primary follicle
- (C) Ovulation, Graafian follicle
- (D) Ovulation, Tertiary follicle
- 70. **Assertion:** Spermatogenesis starts at the age of puberty.

Reason: There is a significant increase in the secretion of gonadotropin releasing hormone at puberty.

	(A) Both assertion and reason are true and reason is the correct explanation
	(B) Both assertion and reason are true but reason is not the correct explanation of assertion.
	(C) Assertion is true, but reason is false.
	(D) Both assertion and reason are false.
71.	Assertion: Oogenesis is initiated at puberty.
	Reason: Millions of oogonia are formed within each ovary every month.
	(A) Both assertion and reason are true and reason is the correct explanation of assertion.
	(B) Both assertion and reason true but reason is not the correct explanation of assertion.
	(C) Assertion is true but reason is false.
	(D) Both assertion and reason are false.
72.	Assertion: A large haploid secondary oocyte is formed due to unequal division.
12.	Reason: A tiny second polar body is formed during this division.
	(A) Both assertion and reason are true and reason is the correct explanation of assertion.
	(B) Both assertion and reason true but reason is not the correct explanation of assertion.
	(C) Assertion is true but reason is false.(D) Both assertion and reason are false.
Para-3	
	rual Cycle
73.	The reproductive cycle in the female primates is called
73.	(A) menstrual cycle (B) oestrous cycle (C) reproduction cycle (D) none of these
74	
/4	. Menarche that begins at puberty is
	(A) cessation of menstrual cycle (B) first menstruation (C) period of program which report water a construction access (D) period of the construction (
75	(C) period of pregnancy in which menstruation ceases (D) none of these
75.	The cycle of events starting from one menstruation till the next one is called
7.0	(A) menopause (B) menarche (C) menstrual cycle (D) oestrous cycle
76.	The menstrual phase of menstrual cycle lasts for: (A) 8, 15 days (B) 1, 2 days (C) 1 days (D) 3, 5 days
77	(A) 8–15 days (B) 1–2 days (C) 1 day (D) 3–5 days
77.	Menstrual flow results due to breakdown of
70	(A) endometrial lining (B) blood vessels (C) myometrial lining (D) both (a) and (b)
78.	Menstruation only occurs if
	(A) implantation has occurred (B) the released ovum is fertilized
70	(C) the released ovum is not fertilized(D) both (A) and (D)
79.	The lack of menstruation may be due to
00	(A) pregnancy (B) stress (C) poor health (D) all of these
80.	The menstrual phase is followed by
0.4	(A) follicular phase (B) luteal phase (C) secretory phase (D) both (b) and (c)
81.	What change(s) occur in ovary and/or uterus during follicular phase of menstrual cycle?
	(A) Formation of Graafian follicle (B) Formation of corpus luteum
	(C) Regeneration of endometrium (D) Both (A) and (C)
82.	The changes in the ovary and uterus during proliferative phase are induced by changes in the levels of
	(A) pituitary hormone (B) ovarian hormone (C) pineal hormone (D) both (a) and (b)
83.	In the ovary of a healthy human female mature Graafian follicle is generally present around [NCERT
	Exemplar]
	(A) 5–8 day of menstrual cycle (B) 11–17 day of menstrual cycle
	(C) 18–23 day of menstrual cycle (D) 24–28 day of menstrual cycle
84.	During proliferative phase, the growing follicles secrete
	(A) LH (B) FSH (C) gonadotropins (D) estrogens
85.	Refer to the given flowchart, in which three parts are labeled as A, B and C.
	Identify them and choose the correct option from the codes given below.



Codes-

В C

- (A) Increase Increase Estrogens (B) Decrease Increase Estrogens (C) Decrease Decrease Testosterone
- TSH (D) Increase Decrease
- Match the items given in Column-I with those in Column-II and select correct option from the codes 86. given below. [NEET-2018]

Column I Column II

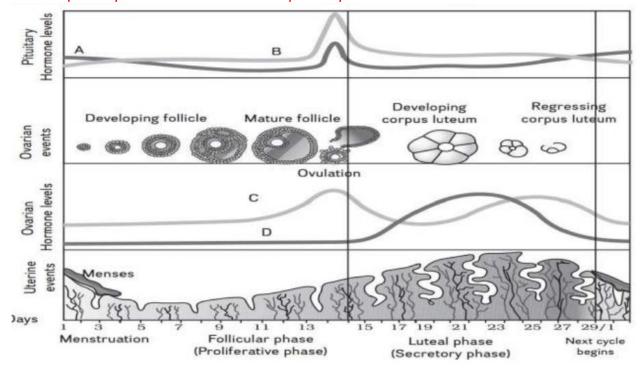
- (a) Proliferative phase (1) Breakdown of endometrial lining
- (b) Secretary phase
- (2) Follicular phase
- (c) Menstruation
- (3) Luteal phase
- Α b С (A) 3 2 1 3
- 2 (B) 1
- 2 3 1 (C) 3 2 (D) 1
- 87. Both LH and FSH attain a peak level on about 'A' day of cycle. Choose the correct option for 'A'.
 - (A) 10th day
- (B) 14th day
- (C) 19th day
- (D) 5th day
- 88. Read the following statements about LH surge and choose the incorrect one.
 - (A) LH surge is rapid secretion of luteal hormone.
 - (B) It occurs in the mid of the cycle.
 - (C) LH surge induces degeneration of corpus luteum.
 - (D) It causes ovulation.
- 89. The release of ovum occurs during which phase of menstrual cycle?
 - (A) Follicular phase
- (B) Proliferative phase
- (C) Ovulatory phase (D) Secretory phase
- 90. The ovulatory phase of menstrual cycle is followed by
 - (A) luteal phase (B) follicular phase (C) proliferative phase (D) menstrual phase
- 91. No new follicles develop in the luteal phase of the menstrual cycle because [NEET Odisha-2019]
 - (A) Both FSH and LH levels are low in the luteal phase
 - (B) follicles do not remain in the ovary after ovulation
 - (C) FSH levels are high in the luteal phase.
 - (D) LH levels are high in the luteal phase.
- 92. Match the phases of menstrual cycle given in Column-I with the hormones secreted during that phase in Column-II. Choose the correct option from the codes given below.

Column I Column II

(a) Follicular phase (1) Progesterone

- (b) Ovulatory phase (2) Gonadotropins (c) Luteal Phase (3) LH surge (4) Estrogens Codes а b С (A) 4 2 3.1 (B) 3 1 2,4 2 4,1 3 (C) 2 4.3 (D) 1
- 93. Among the following which change occurs during luteal phase?
 - (A) Corpus luteum → Graafian follicle
- (B) Graafian follicle → Corpus luteum
- (C) Primary follicle → Secondary follicle
- (D) Secondary follicle → Graafian follicle
- 94. Read the following statements about corpus luteum and choose the correct ones from the following options.
 - (I) It is formed during ovulatory phase of menstrual cycle.
 - (II) It secretes large amounts of progesterone.
 - (III) In the absence of ovulation, the corpus luteum degenerates.
 - (IV) The degeneration of corpus luteum causes disintegration of endometrium.
 - (A) I and III
- (B) II and III
- (C) II and IV
- (D) I and IV
- 95. In human beings, permanent cessation of menstrual cycle is called:
 - (A) Menopause
- (B) Menarche
- (C) Ovulation
- (D) None of these

96-97. Refer to the given figure to answer the question no 96–97. The figure is showing diagrammatic presentation of various events during a menstrual cycle. In the figure, A, B and C, D show the levels of pituitary and ovarian hormones respectively.



- 96. The gradual increase of which hormone stimulates the secretion of hormone C
- (B) B
- (C) D
- (D) Both (a) and (b)

97. The rapid increase of which hormone will induce rupture of Graafian follicle and thereby the release of ovum?

- (A) A
- (B) C
- (C) B
- (D) D

98. Choose the incorrect statement from the following. [NCERT Exemplar]

(I) High levels of estrogen triggers the ovulatory surge.

(II) Oogonial cells start to proliferate and give rise to functional ova in regular cycles from puberty onwards. (III) Sperms released from seminiferous tubules are poorly motile/non-motile. (IV) Progesterone level is high during the post ovulatory phase of menstrual cycle. (A) I and III (B) II and IV (C) I and IV (D) I and II Consider the following features. (i) Transformation of Graafian follicle into corpus luteum. (ii) Secretion of large amount of progesterone from corpus luteum. (iii) Maintenance of endometrial lining of the uterus. Select the correct phase of menstrual cycle that possesses all the above characteristics. (A) Follicular phase (B) Secretory phase (C) Proliferative phase (D) Ovulatory phase **Assertion:** The lack of mensuration may be indicative of pregnancy. **Reason:** Mensuration only occurs if the released ovum is not fertilised. (A) Both assertion and reason are true and reason is the correct explanation of assertion. (B) Both assertion and reason are true but reason is not the correct explanation of assertion. (C) Assertion is true but reason is false. (D) Both assertion and reason are false. Assertion: During secretory phase the levels of LH and FSH gradually increase. **Reason:** The increased levels of FSH and LH induce Graafian follicles to secrete progesterone. (A) Both assertion and reason are true and reason is the correct explanation of assertion. (B) Both assertion and reason are true but reason is not the correct explanation of assertion. (C) Assertion is true but reason is false. (D) Both assertion and reason are false. **Assertion:** During pregnancy, all events of the menstrual cycle stop. **Reason:** In the absence of fertilisation, the corpus luteum degenerates. (A) Both assertion and reason are true and reason is the correct explanation of assertion. (B) Both assertion and reason are true but reason is not the correct explanation of assertion. (C) Assertion is true but reason is false. (D) Both assertion and reason are false. Para-3.5 Fertilization and Implantation The sperms released during copulation, finally reach to which part of the Fallopian tube? (A) Infundibulum (B) Isthmus (C) Ampulla (D) Ampullary-isthmic All copulations not lead to the fertilisation and pregnancy. Choose the correct reason for the same from the following options. (A) Fertilisation can only occur if sperms are transported to the ampullaryisthmic junction before the ovum. (B) Fertilisation can only occur if the ovum and sperms are transported simultaneously to the ampullaryisthmic junction. (C) Fertilisation can only occur if ovum is transported to the ampullary-isthmic junction before the sperms. (D) None of these Capacitation occurs in [NEET–2017] (A) epididymis (B) vas deferens (C) female reproductive tract (D) rete testis Capacitation refers to changes in the [AIPMT-2015] (A) ovum before fertilisation (B) ovum after fertilisation (C) sperm after fertilisation (D) sperm before fertilisation

99.

100.

101.

102.

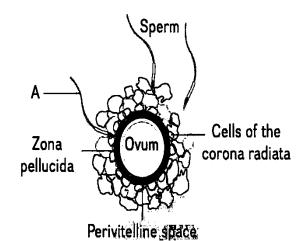
103.

104.

105.

106.

107. Refer to the given figure showing an ovum surrounded by few sperms. Sperm 'A' in the figure is trying to fertilise the ovum. How will this sperm 'A' ensure that no other sperm can fertilise the ovum?



- (A) By inducing changes in the cells of corona radiata.
- (B) By inducing changes in the zona pellucida layer of the ovum.
- (C) By inducing changes in the perivitelline space of the ovum.
- (D) By releasing some chemicals to kill other sperms.
- 108. The membranous cover of the ovum that is found at the time of ovulation is [NCERT Exemplar]
 - (A) corona radiate (B) zona radiate (C) zona pellucida (D) chorion
- 109. During acrosomal reaction the sperm [NCERT Exemplar]
 - (A) comes in contact with zona pellucida of the ova.
 - (B) undergoes reactions within the uterine environment of female.
 - (C) undergoes reactions within the epididymal environment of the male.
 - (D) produces androgens in the uterus.
- 110. The secretions of the acrosome help the sperm to enter into the cytoplasm of ovum through
 - (A) corona radiata
- (B) zona pellucida

- 111. Match the events given in Column-I with their characteristic features in Column-II and choose the correct option from the codes given below.

Column I Column II

- (a) Fertilisation
- (1) Female reproductive tract
- (b) Capacitation
- (2) Contact of sperm with zona pellucida
- (c) Acrosomal reaction
- (3) Before fertilisation and after ovulation

(C) chorion

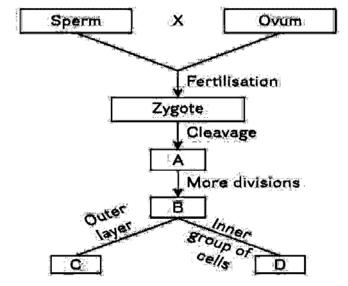
- (d) Second polar body
- (4) Ampullary isthmic junction

Codes

	а	b	С	d
(A)	1	4	2	3
(B)	4	1	2	3
(C)	3	2	4	1
(D)	4	1	3	2

- The embryo having 8-16 blastomeres is called 112.
 - (A) blastula
- (B) gastrula
- (C) morula
- (D) trophoblast
- Morula is known as a developmental stage [NCERT Exemplar] 113.
- (A) between the zygote and blastocyst (B) between the blastocyst and gastrula
 - (C) after the implantation

- (D) between implantation and parturition
- 114. Refer to the given flowchart. It has some blank spaces mentioned as A, B, C and D. Choose the correct option for these A, B, C and D.



- (A) Morula Blastocyst Trophoblast Inner cell mass (B) Blastocyst Morula Trophoblast Inner cell mass
- (C) Morula Blastocyst Inner cell mass Trophoblast (D) Blastocyst Morula Inner cell mass Trophoblast
- 115. The blastomeres in the blastocyst are arranged into
 - (A) an outer trophoblast and inner cell mass (B) an outer cell mass and inner trophoblast
 - (C) an outer cell mass and inner cell mass
- (D) none of these
- 116. During embryogenesis which part of blastocyst gets differentiated into embryo?
 - (A) Trophoblast
- (B) Inner cell mass
- (C) Morula
- (D) Both (a) and (b)
- 117. The embedding of blastocyst in the endometrium of uterus is called
 - (A) pregnancy (B) lactation
- (C) embryogenesis
- 118. Extrusion of second polar body from egg nucleus occurs [NEET-2015]
 - (A) after entry of sperm but before fertilisation
- (B) after fertilisation
- (C) before entry of sperm into ovum
- (D) simultaneously with first cleavage
- 119. All the haploid gametes produced by the female have
 - (A) X-chromosomes
 - (B) Y-chromosomes
 - (C) 50% gametes have X and 50% have Ychromosomes
 - (D) 25% gametes have X and 75% have Ychromosomes
- 120. Cleavage that occurs in the zygote as it moves through the isthmus of oviduct towards the uterus is
- (C) reductional division (D) none of these (A) meiotic division v (B) mitotic division

Match the following and choose the correct option from the codes given below. Column I

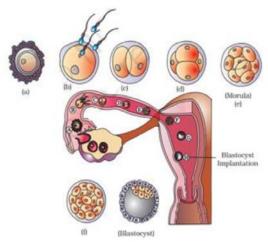
121.

Column II

- (a) Trophoblast
- (1) Embedding of Blastocyst in the endometrium
- (b) Cleavage
- (2) Group of cells hat would differentiate as embryo
- (c) Inner cell mass
- (3) Outer layer of blastocyst attached to the endometrium
- (d) Implantation
- (4) Mitotic division of zygote

Codes

- d а b (A) 2 1 3 4
- (B) 3 4 2 1
- 3 2 4 (C) 1
- 3 2 1 (D)
- 122. Refer to the given figure showing transport of ovum, fertilisation and passage of growing embryo through Fallopian tube. The figure is followed by four statements. Choose the incorrect statement about it.



- (A) The second meiotic division of secondary oocyte occurs after fertilisation.
- (B) The embryo with 8–16 blastomeres is called morula.
- (C) The trophoblast layer of blastocyst gets embedded in the endometrium.
- (D) The cells of inner cell mass differentiate to form embryo.
- 123. **Assertion:** All copulations do not lead to fertilisation and pregnancy.

Reason: Fertilisation can only occur if the ovum and sperms are transported simultaneously to the ampullary— isthmic junction.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (C) Assertion is true but reason is false.
- (D) Both assertion and reason are false.
- 124. **Assertion:** The secretions of the acrosome help the sperm enter into the cytoplasm of the ovum. **Reason:** The entry of sperm into the cytoplasm of the ovum is responsible for the capacitation of

Reason: The entry of sperm into the cytoplasm of the ovum is responsible for the capacitation of sperms.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (C) Assertion is true but reason is false.
- (D) Both assertion and reason are false.
- 125. **Assertion:** The blastomeres in the blastocyst are arranged into trophoblast and inner cell mass.

Reason: The trophoblast layer gets attached to the endometrium.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (C) Assertion is true but reason is false.
- (D) Both assertion and reason are false.

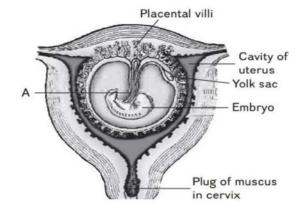
Para-3.6

Pregnancy and Embryonic Development

- 126. The finger-like projections that appear on called
 - (A) trophoectoderm (B) chorionic villi
- (C) placenta (D)
- (D) none of these embryo (foetus) and maternal bo
- 127. The structural and functional unit formed between the developing embryo (foetus) and maternal body is called
 - (A) placenta
- (B) trophoblast
- (C) chorionic villi
- (D) trophoectoderm
- 128. The embryo remains connected to the placenta through
 - (A) chorionic villi
- (B) trophoblast
- (C) umbilical cord
- (D) none of these

- 129. Choose the incorrect statement about placenta.
 - (A) The placenta facilitates the supply of oxygen and nutrients to the embryo.
 - (B) It helps in the removal of CO2 and excretory/ waste materials produced by the embryo.
 - (C) The placenta is connected to the embryo through umbilical cord.
 - (D) Placenta acts like an endocrine tissue and produces several enzymes also.

- 130. Which of the following hormones is not secreted by human placenta? [NCERT Exemplar] (A) hCG (B) Estrogen (C) Progesterone (D) LH 131. Several hormones like hCG, hPL, estrogen, progesterone are produced by [NEET–2016] (A) Fallopian tube (B) pituitary (C) ovary (D) placenta A hormone that is secreted by ovary in the later phase of pregnancy is 132. (A) estrogen (B) FSH (C) relaxin (D) hCG 133. The hormone(s) that is/are produced during pregnancy only (A) hCG (B) hPL (C) relaxin (D) all of these 134. The levels of estrogens, progestogens, cortisol, prolactin, etc., increase many fold in blood during pregnancy. It is necessary for (A) supporting the fetal growth (B) metabolic changes in the mother (C) the maintenance of pregnancy (D) all of these Match Column-I with Column-II and choose the correct option from the codes given below. 135. Column I Column II (a) Chorionic villi (1) Secretes relaxin hormone (b) Placenta (2) Finger-like projections on the trophoblast (3) Structural and functional unit between foetus and mother (c) Umbilical cord (d) Ovary (4) Connects embryo to placenta Codes d b а (A) 2 3 4 1 2 1 (B) 3 4 (C) 2 3 1 4
- 136. Immediately after implantation, which part of blastocyst differentiates into ectoderm and endoderm?
 - (A) Trophoblast (B) Chorionic villi (C) Inner cell mass (D) None of these
- 137. Refer to the given figure showing human foetus within the uterus. How will the removal of 'A' in the figure affect the growth of foetus?



3

2

- (A) Secretion of hCG hormone will stop
- (B) Secretion of relaxin hormone will stop
- (C) Transportation of substances to and from the embryo will stop
- (D) All of these

(D)

4

1

- 138. The inner cell mass contains certain cells called stem cells which have the potency to give rise to
 - (A) specific tissues and organs
- (B) all tissues and organs
- (C) only cardiac cells and heart
- (D) none of these
- 139. Match Column-I with Column-II and select the correct option using the codes given below.

[NEET-2016]

Column I

Column II

	(a) M	ons pub	is	(1) En	nbryo foi	rmation				
	(b) Ar	ntrum		(2) Sp	erm					
	. ,	ophecto				ternal genitali	а			
	(d) Ne	ebenker	n (4) Gra	aafian F	ollicle					
	Codes	5								
		а	b	С	d					
	(A)	3	1	4	2					
	(B)	1	4	3	2					
	(C)	3	4	2	1					
	(D)	3	4	1	2					
140.					nd digits	by the end o	f			
	(A) 1s	t month	n of preg	nancy		(B) 2	nd month of _I	pregr	nancy	
	(C) 3r	d month	h of preg	gnancy		(D) 5	th month of p	pregr	nanc y	
141.	Matc	:h Colun	nn-I with	ո Colum	ın-II and	choose the c	orrect option	from	n the codes given below.	
	Colun	nn I				Column II				
	(Orga	n)			(Mont		nent during pr	regna	incy)	
	(a) He	eart				(1) Second n				
	(b) Lir	mbs and	l digits			(2) First mor	nth			
	. ,	ternal g				th month				
			ce of hai	ir on h ϵ	ead	(4) Third mo	nth			
	Codes	5								
		a	b	С	d					
	(A)	1	2	4	3					
	(B)	2	1	3	4					
	(C)	2	1	4	3					
	(D)	3	2	4	1					_
142.			_			-		nic d	evelopment at various months of	•
		•				tement(s) abc	out it.			
	` '	•				med organ.		a 1	ıl C	
	` '		,	O	,		,		nonth of pregnancy.	
	` '						ng 7th month	тогр	regnancy.	
	` '	•	isnes are		•	e end of secon			(D) Only IV	
1/12	` '	and III	rract cac	(B) I a		ار (C) nts. [Odisha, N	I and IV		(D) Only IV	
143.				•		- ,	-	all di	fferentiation → cell division	
		_	Organı			iei 🦰 Syngain	y -> Zygote ce	en un	nerentiation – cen division	
	•	- ,	_	_		for \rightarrow Syngam	$v \rightarrow 7va$ oto co	ماا طنہ	vision (cleavage) → cell	
		_	n → orga			iei / Syllgalli	y / Zygote ce	en un	vision (cleavage) / cen	
			_	_		fer \rightarrow Syngam	v → Zvante ce	ell div	vision (cleavage) → organogenesi:	$c \rightarrow$
		ifferenti		Garric	ic transi	ici / Syrigarii	y / Zygote et	ch un	vision (cicavage) / organogenesi.	3 /
				y Synga	mv → G	amete transfe	er → 7vønte ce	ell div	vision (cleavage) → cell	
		_	$n \rightarrow orga$			diffete traffsic	zi / Zygote et	cii di	vision (cicavage) / cen	
144.			_	_		I to the embry	o through an	umh	nilical cord	
							_		nd from the embryo.	
					•	•			lanation of assertion.	
									explanation of assertion.	
			is true, k				1111230	_ 50	, 2. 2. 2. 3. 3	
			rtion an							
145.						ndocrine glan	d.			
						_	secreted by p	lacer	nta.	
			•		_		, ,			

	(A) Both assertion and reason are true and reason is the correct explanation of assertion.
	(B) Both assertion and reason are true, but reason is not the correct explanation of assertion.
	(C) Assertion is true, but reason is false.
	(D) Both assertion and reason are false.
146.	Assertion: The first movements of foetus are observed during the third month of pregnancy.
	Reason: By the end of first trimester, eyelids separate and eye-lashes are formed.
	(A) Both assertion and reason are true and reason is the correct explanation of assertion.
	(B) Both assertion and reason are true, but reason is not the correct explanation of assertion.
	(C) Assertion is true, but reason is false.
	(D) Both assertion and reason are false.
Para-3.	7
	tion and Lactation
147.	The duration of pregnancy is called
	(A) parturition (B) lactation (C) gestation period (D) none of these
148.	The process of delivery of the foetus is called
	(A) lactation (B) parturition (C) foetal ejection reflex (D) none of these
149.	The signals for parturition originate from the
	(A) fully developed foetus (B) placenta (C) umbilical cord (D) both (A) and (B)
150.	Match Column-I with Column-II and choose the correct option from the codes given below.
	Column I Column II
	(a) Gestation period (1) Mild uterine contractions
	(b) Parturition (2) Duration of pregnancy
	(c) Foetal ejection reflex (3) Process of delivery of the foetus
	(d) After birth (4) Placental expulsion
	Codes
	A b C d
	(A) 2 3 1 4
	(B) 2 4 1 3
	(C) 4 3 2 1
	(D) 1 2 3 4
151.	The process of milk production is called
450	(A) lactation (B) parturition (C) after birth (D) colostrum
152.	Choose the incorrect statement from the following
	(A) Parturition is induced by a complex neuroendocrine mechanism.
	(B) The foetal ejection reflex triggers release of oxytocin from the hypothalamus.
	(C) Oxytocin acts on the uterine muscles.
152	(D) The placenta is also expelled out of
153.	Which of the following hormones is responsible for both the milk ejection reflex and the foetal ejection reflex? [Odisha, NEET-2019]
154.	
134.	The milk produced during the initial few days of lactation is called (A) colostrum (B) first milk (C) milky water (D) none of these
155.	Choose the incorrect statement from the following. [NCERT Exemplar]
133.	(A) Internal fertilisation takes place, in birds and mammals.
	(B) Colostrum contains antibodies and nutrients.
	(C) Polyspermy is prevented by chemical changes on the egg surface.
	(D) In the human female implantation occurs almost seven days after fertilisation.
156.	Colostrum contains
100.	(A) antibodies (B) nutrients (C) enzymes (D) both (A) and (B)
157.	Assertion: Parturition is a complex neuroendocrine mechanism.
±01.	, was not in a complex hear ochdonine medianism.

Reason: The signals of parturition originate from the fully developed fetus and placenta.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true, but reason is not the correct explanation of assertion.
- (C) Assertion is true, but reason is false.
- (D) Both assertion and reason are false.
- 158. **Assertion:** The mammary glands of the female undergo differentiation after parturition.

Reason: Lactation always starts after childbirth.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true, but reason is not the correct explanation of assertion.
- (C) Assertion is true, but reason is false.
- (D) Both assertion and reason are false.
- 159. **Assertion:** Breast-feeding during the initial period of infant growth is recommended.

Reason: During initial few days after delivery, colostrum is produced.

- (A) Both assertion and reason are true and reason is the correct explanation of assertion.
- (B) Both assertion and reason are true, but reason is not the correct explanation of assertion.
- (C) Assertion is true, but reason is false.
- (D) Both assertion and reason are false

NEET PREVIOUS YEARS QUESTIONS

	below												[2018]
	Colum	ın I					Colur	nn II					
	A. Pro	liferat	ive pha	se			I. Brea	akdov	vn of ei	ndometi	ial lii	ning	
	B. Secr	etory	phase				II. Fol	licula	ır phase	9			
	C. Mer	ıstrua	tion				III. Luteal phase						
	A	В	C	A	В	C	A	В	C	A	В	C	
	(a) III	II	I	(b) I	III	II	(c) III	I	II	(d) II	III	I	
2.	Hormo	ones s	ecreted	by the	olacei	nta to m	aintain	pregr	nancy a	re:			[2018]
	(a) hC0	G, hPI	L, proge	stogens	, pro	lactin.	ctin. (b)hCG, hPL, estrogens, relaxion						xytocin.
	(c) hC0	G, pro	gestoge	ens, estr	ogens	s, gluco	corticoid	ls. (d) hCG,	hPL, pro	ogest	ogens, es	strogens.
3.	The an	nnion	of man	nmalian	emb	ryo is de	erived fr	om:	•	•	Ü	C	[2018]
	(a) Ecto	odern	n and m	esoderr	n.	-	(b) Endoderm and mesoderm.						
	(c) Ecto	odern	n and er	ndodern	າ.		(d) M	esode	erm and	l tropho	blast.		
4.	The di	fferen	ce betw	een spe	rmio	genesis	and spe	rmiat	ion is t	hat			
				[2018]	l `		•						
	(a) in s	perm	iogenes	is spern	natids	s are for	med, wl	hile ir	n sperm	iation s	perm	atozoa a	re formed.

(b) in spermiogenesis spermatozoa are formed, while in spermiation spermatids are formed.(c) in spermiogenesis spermatozoa are formed, while in spermiation spermatozoa are released

(d) in spermiogenesis spermatozoa from sertoli cells are released into the cavity of seminiferous

from sertoli cells into the cavity of seminiferous tubules.

tubules, while in spermiation spermatozoa are formed.

(a) epididymis. (b) vas deferens. (c) female reproductive tract. (d) testis. 6. Select the incorrect statement. (a) FSH stimulates the sertoli cells which help in spermiogenesis. (b) LH triggers over in ovary. (c) LH and FSH decrease gradually during the follicular phase. (d) LH triggers secretion of androgens from the Leydig cells. 7. Fertilisation in humans is practically feasible only if (a) the sperms are transported into vagina just after the release of ovum in fallopian tube. (b) the ovum and sperms are transported simultaneously to ampullary isthmic junction fallopian tube. (c) the ovum and sperms are transported simultaneously to ampullary - isthmic junction cervix. (d) the sperms are transported into cervix within 48 hrs of release of ovum in uterus. 8. Which of these is not an important component of initiation of parturition in humans? (a) Synthesis of prostaglandins. (b) Release of oxytocin. (c) Release of prolactin. (d) Increase in estrogen and progesterone ratio. 9. In human females, meiosis-II is not complete until (a) fertilisation (b) the following events is not associated with ovulation in human female? (a) Full development of Graafian follicle (b) Helease of secondary oocyte (c) LH surge (d) Decrease in estradiol 11. Which of the following cells during gametogenesis is normally diploid? (a) Spermatid (b) Spermation (c) Secondary polar body (d) Primary polar body. (a) Estrogen only. (b) Progesterone. (c) Human chorionic gonadotropin. (d) I certis → Epididymis → Vasa efferentia → Rete testis → Inguinal canal → Urethra (2) Seminiferous tubules → Rete testis → Vasa efferentia → Epididymis → Vas defere Fijaculatory duct → Urethra → Urethral meatus 3) Seminiferous tubules → Vasa efferentia → Epididymis → Inguinal canal → Urethra (d) Testis → Epididymis → Vasa efferentia → Epididymis → Inguinal canal → Urethra (d) Testis → Epididymis → Vasa efferentia → Epididymis → Inguinal canal → Urethra (d) Testis → Epididymis → Vasa efferentia → Epididymis → Inguinal canal → Ure	5 .	Capacitation occurs in	n				[2017]	
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Ejaculatory duct → Urethra → Urethral meatus (3) Seminiferous tubules → Vasa efferentia → Epididymis → Inguinal canal → Urethra (4) Testis → Epididymis → Vasa efferentia → Vas deferens → Ejaculatory duct → Inguinal → Urethra → Urethral meatus 15. Extrusion of second polar body from egg nucleus occurs : [NEET (1) after entry of sperm but before fertilization (2) after fertilization (3) before entry of sperm into ovum (4) simultaneously with first cleaved the correct sequence of events : [NEET-2019 ODISS (1) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage) ← Cell differentiation → Organogenesis → Cell differentiation		(2) Seminiferous tubules \rightarrow Rete testis \rightarrow Vasa efferentia \rightarrow Epididymis \rightarrow Vas deferens \rightarrow						
 (3) Seminiferous tubules → Vasa efferentia → Epididymis → Inguinal canal → Urethra (4) Testis → Epididymis → Vasa efferentia → Vas deferens → Ejaculatory duct → Inguinal → Urethra → Urethral meatus 15. Extrusion of second polar body from egg nucleus occurs : [NEET (1) after entry of sperm but before fertilization (2) after fertilization (3) before entry of sperm into ovum (4) simultaneously with first cleaves 16. Select the correct sequence of events : [NEET-2019 ODISS (1) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage Cell differentiation → Organogenesis (2) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage) → Organogenesis → Cell differentiation 		` '			1 ,			
 →Urethra → Urethral meatus 15. Extrusion of second polar body from egg nucleus occurs: (1) after entry of sperm but before fertilization (3) before entry of sperm into ovum (4) simultaneously with first cleaves (1) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage Cell differentiation → Organogenesis (2) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage) → Organogenesis → Cell differentiation 					nguinal cana	$l \rightarrow Urethra$		
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 (1) after entry of sperm but before fertilization (2) after fertilization (3) before entry of sperm into ovum (4) simultaneously with first cleave Select the correct sequence of events: [NEET-2019 ODISS (1) Gametogenesis → Gamete transfer → Syngamy → Zygote → Cell division (Cleavage) (2) after fertilization (3) before entry of sperm but before fertilization (4) simultaneously with first cleave (5) Cleavage → Cell division (Cleavage) (6) Cleavage → Cell division (Cleavage) (7) Cleavage → Cell division (Cleavage) (8) Cleavage → Cell division (Cleavage) (9) After fertilization (9) After fertilization (1) Simultaneously with first cleave (1) Cleavage → Cell division (Cleavage) (2) Gametogenesis → Cell division (Cleavage) (3) Deform the first cleave (4) Simultaneously with first cleave (5) Cleavage (6) After fertilization (7) After fertilization (8) After fertilization (9) After fertilization (1) Simultaneously with first cleave (1) After fertilization (2) After fertilization (3) After fertilization (4) Simultaneously with first cleave (4) Simultaneously with first cleave (4) Simultaneously with first cleave (5) After fertilization (6) After fertilization (7) After fertilization (8) After fertilization (9) After fertilization (1) After fertilization (1) After fertilization (2) After fertilization (3) After fertilization (4) Simultaneously with first cleave (6) After fertilization (7) After fertilization (8) After fertilization (9) After fert		\rightarrow Urethra \rightarrow Urethra	al meatus					
(3) before entry of sperm into ovum 16. Select the correct sequence of events: (1) Gametogenesis → Gamete transfer → Syngamy →Zygote → Cell division (Cleavag Cell differentiation →Organogenesis (2) Gametogenesis →Gamete transfer →Syngamy →Zygote →Cell division (Cleavage) → Organogenesis →Cell differentiation	15.	Extrusion of second p	oolar body from egg	g nucleus occurs :		[NEI	ET-2019]	
 Select the correct sequence of events: [NEET-2019 ODISS (1) Gametogenesis → Gamete transfer → Syngamy →Zygote → Cell division (Cleavag Cell differentiation →Organogenesis (2) Gametogenesis →Gamete transfer →Syngamy →Zygote →Cell division (Cleavage) Organogenesis →Cell differentiation 				• •				
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Cell differentiation →Organogenesis (2) Gametogenesis →Gamete transfer →Syngamy →Zygote →Cell division (Cleavage) Organogenesis →Cell differentiation	16.	_			_		_	
(2) Gametogenesis →Gamete transfer →Syngamy →Zygote →Cell division (Cleavage) · Organogenesis →Cell differentiation				\rightarrow Syngamy \rightarrow Zygote	→ Cell divis	sion (Cleava	ıge) →	
Organogenesis → Cell differentiation								
				Syngamy \rightarrow Zygote \rightarrow	Cell division	n (Cleavage) →	
		0 0		to transfer \ 7	Coll division	n (Classica)) \ C ₀ 11	
(3) Gametogenesis \rightarrow Syngamy \rightarrow Gamete transfer \rightarrow Zygote \rightarrow Cell division (Cleavage) differentiation \rightarrow Organogenesis				te transfer \rightarrow Zygote \rightarrow	Cen divisio	ii (Cieavage) → Cell	
anterentiation /Organogenesis		amerentiation 701g	,411080110313					

	(4) Gametogenesis → Gamete transdivision	$fer \rightarrow Syngamy \rightarrow Zygote \rightarrow Cell$	differentiation \rightarrow Cell				
17.	(Cleavage) → Organogenesis Which of the following hormones i ejection reflex?	s responsible for both the milk eje	ction reflex and the foetal [NEET-2019 ODISSA]				
		(3) Oxytocin (4) Re	•				
18.	No new follicles develop in the lute	. , ,					
	1 to 1.0 to 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	process of the interest during by the co	[NEET-2019 ODISSA]				
	(1) Follicles do not remain in the ov	vary after ovulation					
	(2) FSH levels are high in the luteal	•					
	(3) LH levels are high in the luteal	-					
	(4) Both FSH and LH levels are low						
19.	In human beings, at the end of 12 w	veeks (first trimester) of pregnanc	y, the following is				
	observed:						
			[NEET-2020 COVID]				
	(1) Eyelids and eyelashes are forme						
	(2) Most of the major organ systems are formed						
	(3) The head is covered with fine ha	air					
20	(4) Movement of the foetus	-1	INFET 2020 COMPI				
20.	Match the following columns and s Column - I Colum		[NEET-2020 COVID]				
		man chorionic Gonadotropin					
		rogen &Progesterone					
	(c) Corpus luteum (iii) Ai	9					
	(d) Leydig cells	(iv) Progesterone only					
	(1) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)						
	(3) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)						
21.	Select the correct option of haploid		[NEET-2020 COVID]				
	(1) Primary oocyte, Secondary oocy		_				
	(2) Secondary spermatocyte, First polar body, Ovum						
	(3) Spermatogonia, Primary spermatocyte, Spermatid						
	(4) Primary spermatocyte, Seconda		•				
22.	Identify the wrong statement with		ols ABO blood groups [NEET-2020]				
	1) Allele 'i' does not produce any st	agar					
	2) The gene (I) has three alleles						
	3) A person will have only two of the						
23.	4) When I ^A and I ^B are present toget Which of the following hormone le						
25.	follicle?	vels cause release of ovulli (ovula	[NEET-2020]				
	1) Low concentration of FSH	2) High concentration of Est	-				
	3) High concentration of Progestero	, 0	8621				
24.	Mach the following columns and so		[NEET-2020]				
	Column - I	Column - II	-				
	(a) Placenta	(i) Androgens					
	(b) Zona pellucida	(ii) Human Chorionic Gonadatro	nin (hCG)				
	(c) Bulbo-urethral glands	(iii) Layer of the ovum	r (1100)				
	(d) Leydig cells	(iv) Lubrication of the Penis					
	., , ,						

25. 26.	(a) (b) (c) (d) (a) (b) (c) (d) 1)(ii) (iii) (iv) (i) 2)(iv) (iii) (i) (ii) 3)(i) (iv) (ii) (iii) 4)(iii) (ii) (iv) (i) Receptors for sperm binding in mammals are present on: [NEET-2021] 1) Vitelline membrane 2) Perivitelline space 3) Zone pellucida 4) Corona radiate Which of these is not an important component of initiation of parturition in humans? [NEET-2021]					
	1) Synthesis of prostaglandins 2) Release of Oxytocin					
27.	3) Release of Prolactin 4) Increase in oestrogen and progesterone ratio Which of the following secretes the hormone, relaxin, during the later phase of pregnancy? [NET-2021]					
20	1) Corpus luteum 2) Foetus 3) Uterus 4) Graafian follicle					
28.	Given below are two statements: [NEET-2022] Statement I: The release of sperms into the seminiferous tubules is called spermiation. Statement II: Spermiogenesis is the process of formation of sperms from spermatogonia. In the light of the above statements, choose the most appropriate answer from the options given below:					
	1) Both statements I and Statements II are correct					
	2) Both statement I and Statement II are incorrect					
	3) Statement I is correct but Statement II is incorrect					
29.	4) Statement I is incorrect but Statement II is correct Which of the following statements are true for spermatogenesis but do not hold true for					
29.	Which of the following statements are true for spermatogenesis but do not hold true for Oogenesis? [NEET-2					
	a) It results in the formation of haploid gametes					
	b) Differentiation of gamete occurs after the completion of meiosis					
	c) Meiosis occurs continuously in a mitotically dividing stem cell population					
	d) It is controlled by the Luteinising hormone (LH) and Follicle Stimulating Hormone (FSH) secreted by the anterior pituitary					
	e) It is initiated at puberty					
	Choose the most appropriate answer from the options given below:					
	1) (c) and (e) only 2) (b) and (c) only					
20	3) (b), (d) and (e) only 4) (b), (c) and (e) only At a big is at a set of life, the second is initiated by					
30.	At which stage of life the oogenesis process is initiated? [NEET-2022]					
	1) Puberty2) Embryonic development stage3) Birth4) Adult					

NCERT LINE BY LINE QUESTIONS - ANSWERS

		1		ı	1				,
1) B	2) C	3) B	4) D	5) A	6) B	7) D	8) B	9) A	10) D
11) A	12) A	13) A	14) C	15) B	16) B	17) B	18) C	19) D	20) A
21) B	22) C	23) B	24) D	25) A	26) B	27) A	28) C	29) B	30) C
31) D	32) A	33) C	34) B	35) A	36) B	37) A	38) B	39) A	40) B
41) C	42) B	43) A	44) C	45) B	46) C	47) D	48) A	49) A	50) B
51) D	52) C	53) C	54) A	55) D	56) B	57) D	58) A	59) C	60) B
61) D	62) A	63) C	64) A	65) A	66) C	67) C	68) A	69) C	70) A
71) D	72) C	73) A	74) B	75) C	76) D	77) D	78) C	79) D	80) A
81) D	82) D	83) B	84) D	85) A	86) C	87) B	88) C	89) C	90) A
91) A	92) B	93) B	94) C	95) A	96) D	97) C	98) A	99) B	100) A
101) D	102) B	103) C	104) B	105) C	106) D	107) B	108) A	109) A	110) B
111) B	112) C	113) A	114) A	115) A	116) B	117) D	118) A	119) A	120) B
121) B	122) A	123) A	124) C	125) B	126) B	127) A	128) C	129) D	130) D
131) D	132) C	133) D	134) D	135) A	136) C	137) C	138) B	139) D	140) B
141) C	142) A	143) B	144) B	145) C	146) D	147) C	148) B	149) D	150) A
151) A	152) B	153) D	154) A	155) C	156) D	157) B	158) A	159) A	

NEET PREVIOUS YEARS QUESTIONS-ANSWERS

 $1 \ (d) \quad 2 \ (d) \quad 3 \ (a) \quad 4 \ (c) \quad 5 \ (c) \quad 6 \ (c) \quad 7 \ (b) \quad 8 \ (c) \quad 9 \ (a) \quad 10 \ (d)$

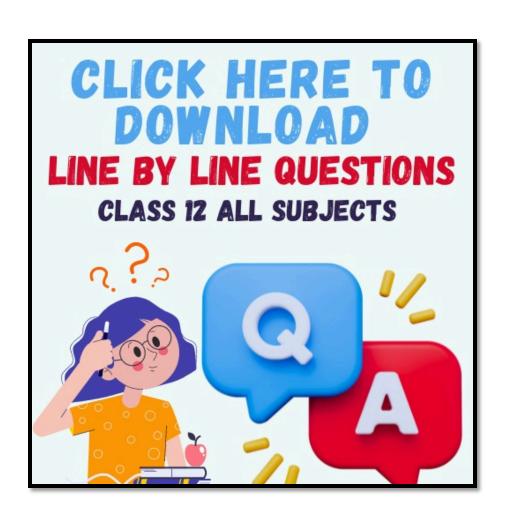
11 (b) 12 (b) 13 (a) 14 (2) 15 (1) 16 (1) 17 (3) 18 (4) 19 (2) 20 (4)

21 (2) 22 (4) 23 (2) 24 (1) 25 (3) 26 (3) 27 (1) 28 (3) 29 (4) 30 (2)

NEET PREVIOUS YEARS QUESTIONS-EXPLANATIONS

- 1. (d) 2. (d) 3. (a) 4. (c) 5. (c) 6. (c) 7. (b) 8. (c)
- 9. (a) Meiosis-II does not complete untill fertilisation occurs in females (in human being). 10. (d)

- 11. (b) During gametogenesis, spermatogonia are diploid because of undergoing the process of meiosis.
- 12. (b)
- 13. (a) Urethra is a tube that connects the urinary bladder to the genitals for the removal of fluids from the body. The urethra travels through the penis, and carries semen as well as urine.
- 22. ABO blood groups are controlled by the gene I. The gene I has three alleles I^A, I^B and i. The alleles I^A and I^B produce different form of the sugar while allele i does not produce any sugar.
- 23. High concentration of Estrogen cause the release of ovum (ovulation) from the graffian follicle.
- 24. (a) Placenta secretes human chorionic gonadotropin (hCG)
 - (b) Zona pellucida is a primary egg membrane secreted by the secondary oocyte
 - (c) The secretions of bulbourethral glands help in lubrication of the penis
 - (d) Leydig cells synthesise and secrete testicular hormones called androgens
- 25. Receptors for sperm binding in mammals are present on zona pellucida
- * At the end of gestation, the completely developed foetus is expelled out. This process is called parturition.
 - * Parturition is controlled by a complex neuroendocrine mechanism.
 - * Estrogen and progesterone ratio increases as estrogen levels rise significantly.
 - * Prostaglandins, which stimulate uterine contractions are also produced that act on myometrium.
 - * Oxytocin, the main hormone, also called as birth hormone is released by maternal pituitary, which brings about strong uterine contractions.
 - * Prolactin is a lactation hormone that has no role in initiation of parturition
- 27. The hormone relaxin is produced in the later phase of pregnancy. It is produced by the ovary.
 - * Graafian follicle is not formed when the woman is pregnant.
 - * Uterus and foetus do not produce relaxin.
 - * Relaxin is produced by the corpus luteum present in the ovary. Ruptured Graafian follicle is called corpus luteum, which has endocrine function
 - 28. I) Spermiation which is a process sperms are released from seminiferous tubule.
 - II) Spermiogenesis is promoted by FSH where seprmatids convert into sperms
 - 29 Statements b, c, & e are exclusively for spermatogenesis
 - 30 Oogenesis is initiated at embryonic stage





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- **Instant Access to Educational Content:** SOE WhatsApp groups are a platform where teachers can access a wide range of educational content instantly. This includes study materials, notes, sample papers, reference materials, and relevant links shared by group members and moderators.
- **Timely Updates and Reminders:** SOE WhatsApp groups serve as a source of timely updates and reminders about important dates, exam schedules, syllabus changes, and academic events. Teachers can stay informed and well-prepared for upcoming assessments and activities.
- Interactive Learning Environment: Teachers can engage in discussions, ask questions, and seek clarifications within the group, creating an interactive learning environment. This fosters collaboration, peer learning, and knowledge sharing among group members, enhancing understanding and retention of concepts.
- Access to Expert Guidance: SOE WhatsApp groups are moderated by subject matter experts, teachers, or experienced educators can benefit from their guidance, expertise, and insights on various academic topics, exam strategies, and study techniques.

Join the School of Educators WhatsApp Group today and unlock a world of resources, support, and collaboration to take your teaching to new heights. To join, simply click on the group links provided below or send a message to +91-95208-77777 expressing your interest.

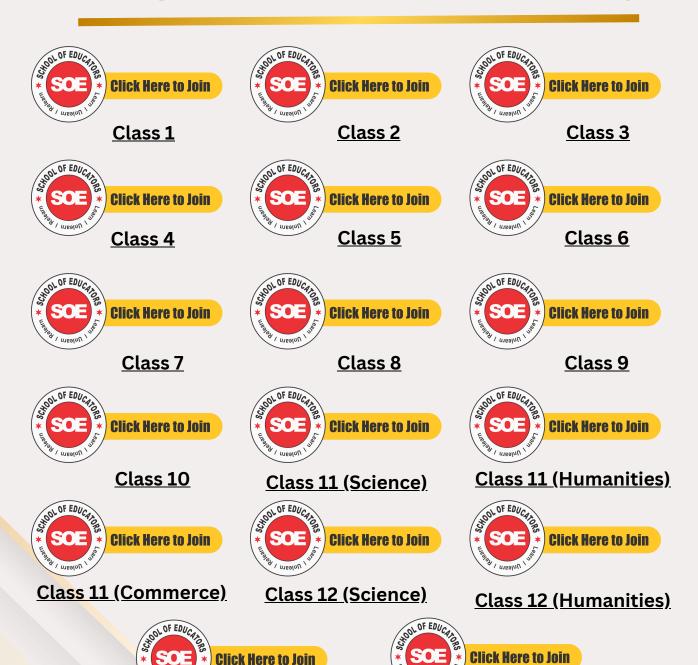
Together, let's empower ourselves & Our Students and inspire the next generation of learners.

Best Regards,
Team
School of Educators

Join School of Educators WhatsApp Groups

You will get Pre-Board Papers PDF, Word file, PPT, Lesson Plan, Worksheet, practical tips and Viva questions, reference books, smart content, curriculum, syllabus, marking scheme, toppers answer scripts, revised exam pattern, revised syllabus, Blue Print etc. here. Join Your Subject / Class WhatsApp Group.

Kindergarten to Class XII (For Teachers Only)



Kindergarten

Class 12 (Commerce)

Subject Wise Secondary and Senior Secondary Groups (IX & X For Teachers Only) Secondary Groups (IX & X)



Senior Secondary Groups (XI & XII For Teachers Only)









































Other Important Groups (For Teachers & Principal's)



Principal's Group





Teachers Jobs

IIT/NEET

Join School of Educators WhatsApp Groups

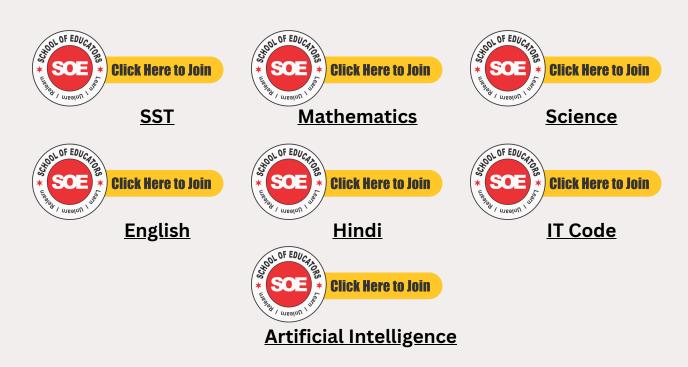
You will get Pre-Board Papers PDF, Word file, PPT, Lesson Plan, Worksheet, practical tips and Viva questions, reference books, smart content, curriculum, syllabus, marking scheme, toppers answer scripts, revised exam pattern, revised syllabus, Blue Print etc. here. Join Your Subject / Class WhatsApp Group.

Kindergarten to Class XII (For Students Only)





Subject Wise Secondary and Senior Secondary Groups (IX & X For Students Only) Secondary Groups (IX & X)



Senior Secondary Groups (XI & XII For Students Only)













































Groups Rules & Regulations:

To maximize the benefits of these WhatsApp groups, follow these guidelines:

- 1. Share your valuable resources with the group.
- 2. Help your fellow educators by answering their queries.
- 3. Watch and engage with shared videos in the group.
- 4. Distribute WhatsApp group resources among your students.
- 5. Encourage your colleagues to join these groups.

Additional notes:

- 1. Avoid posting messages between 9 PM and 7 AM.
- 2. After sharing resources with students, consider deleting outdated data if necessary.
- 3. It's a NO Nuisance groups, single nuisance and you will be removed.
 - No introductions.
 - No greetings or wish messages.
 - No personal chats or messages.
 - No spam. Or voice calls
 - Share and seek learning resources only.

Please only share and request learning resources. For assistance, contact the helpline via WhatsApp: +91-95208-77777.

Join Premium WhatsApp Groups Ultimate Educational Resources!!

Join our premium groups and just Rs. 1000 and gain access to all our exclusive materials for the entire academic year. Whether you're a student in Class IX, X, XI, or XII, or a teacher for these grades, Artham Resources provides the ultimate tools to enhance learning. Pay now to delve into a world of premium educational content!

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Best Wishes,

Team
School of Educators & Artham Resources

SKILL MODULES BEING OFFERED IN **MIDDLE SCHOOL**



Artificial Intelligence



Beauty & Wellness



Design Thinking & Innovation



Financial Literacy



Handicrafts



Information Technology



Marketing/Commercial **Application**



Mass Media - Being Media **Literate**



Travel & Tourism



Coding



Data Science (Class VIII only)



Augmented Reality / Virtual Reality



Digital Citizenship



Life Cycle of Medicine & **Vaccine**



Things you should know about keeping Medicines at home



What to do when Doctor is not around



Humanity & Covid-19











Food Preservation



<u>Baking</u>



<u>Herbal Heritage</u>



<u>Khadi</u>



Mask Making



Mass Media



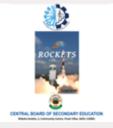
Making of a Graphic Novel



<u>Embroidery</u>



<u>Embroidery</u>



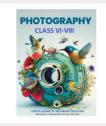
Rockets



Satellites



<u>Application of</u> <u>Satellites</u>



<u>Photography</u>

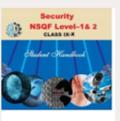
SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX - X)



Retail



Information Technology



Security



<u>Automotive</u>



Introduction To Financial Markets



Introduction To Tourism



Beauty & Wellness



<u>Agricultur</u>e



Food Production



Front Office Operations



Banking & Insurance



Marketing & Sales



Health Care



<u>Apparel</u>



Multi Media



Multi Skill Foundation **Course**



Artificial Intelligence



Physical Activity Trainer



Data Science



Electronics & Hardware (NEW)



Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)



Design Thinking & Innovation (NEW)

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI - XII)



Retail



<u>InformationTechnology</u>



Web Application



Automotive



Financial Markets Management



Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking

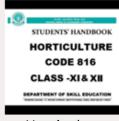


Marketing





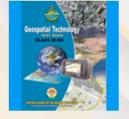
Insurance



Horticulture



Typography & Comp. **Application**



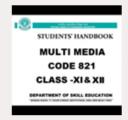
Geospatial Technology



Electrical Technology



Electronic Technology



Multi-Media



Taxation



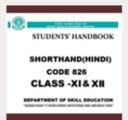
Cost Accounting



Office Procedures & Practices



Shorthand (English)



Shorthand (Hindi)



<u>Air-Conditioning &</u> <u>Refrigeration</u>



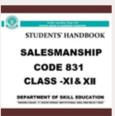
<u>Medical Diagnostics</u>



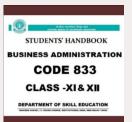
Textile Design



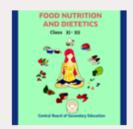
<u>Design</u>



<u>Salesmanship</u>



Business Administration



Food Nutrition & Dietetics



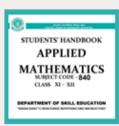
Mass Media Studies



<u>Library & Information</u> <u>Science</u>



Fashion Studies



Applied Mathematics



Yoga



<u>Early Childhood Care &</u> <u>Education</u>



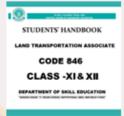
<u>Artificial Intelligence</u>



Data Science



Physical Activity
Trainer(new)



Land Transportation
Associate (NEW)



Electronics & Hardware (NEW)



<u>Design Thinking &</u> <u>Innovation (NEW)</u>

